



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4007-3**Job Sheet 196728****Part No:** D4007-3**Job Qty:** 10 pcs**Part Name:** Support**Part Weight:** 0 lbs**Status:** New**Priority:** Medium**Job Created:** 6/20/19**Job Tracking No:****Due Date:** 8/30/19**Created By:** Chantal Lavoie**Type:** Stock**Description:**

Note: DWG REV A SHEETS 3,5 IPP rev A 09.12.18 new Issue Prelim EC verified: DD IPP Rev:B 10.05.03 as per ECN10-562 DD verified by:EC

Ship Via:**Bill of Materials****Job Routing**

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	10 pcs	8/30/19	8/30/19	0.00	0.00	Purchasing - 1		
							Purchasing - 2		
							Purchasing - 3		
110	Packaging 2-1 - Receive - B4B	10 pcs	8/30/19	8/30/19	0.00	0.00	Packaging 2 - 1 - B4B		
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 - B4B		
							Packaging 2 - 21 - B4B		
							Packaging 2 - 22 - B4B		
							Packaging 2 - 23 - B4B		
							Packaging 2 - 24 - B4B		
							Packaging 2 - 25 - B4B		
							Packaging 2 - 26 - B4B		
							Packaging 2 - 27 - B4B		

**Container No:** S209890**Part:** D4007-3**Job No:** 196728**Serial No/Batch:** S209890**Revision:****Inspector:****Exp Date:****Instructions:** Various STC's**Date:** 08/28/19

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
					QC 6 - 9	
120 QC 6	10 pcs	8/30/19	0.00 0.00	QC 6 - 68		DAS
				QC 6 - 61		61
				QC 6 - 40		9-89
130 Handfinish - 1-1 Chemical-B4B	10 pcs	8/30/19	0.00 1.00	Handfinish - 1 - 1 - B4B		
				Handfinish - 1 - 2 - B4B		
				Handfinish - 1 - 3 - B4B		SEP 03 2019
				Handfinish - 1 - 4 - B4B		
				Handfinish - 1 - 5 - B4B		
				Handfinish - 1 - 6 - B4B		
				Handfinish - 1 - 7 - B4B		
				Handfinish - 1 - 8 - B4B		
				Handfinish - 1 - 9 - B4B		
				Handfinish - 1 - 10 - B4B		
				Handfinish - 1 - 11 - B4B		
				Handfinish - 1 - 12 - B4B		
				Handfinish - 1 - 13 - B4B		
				Handfinish - 1 - 14 - B4B		
				Handfinish - 1 - 15 - B4B		
				Handfinish - 1 - 16 - B4B		
				Handfinish - 1 - 17 - B4B		
				Handfinish - 1 - 18 - B4B		
				Handfinish - 1 - 19 - B4B		
				Handfinish - 1 - 20 - B4B		
				Handfinish - 1 - 21 - B4B		
				Handfinish - 1 - 22 - B4B		
140 QC 3	10 pcs	8/30/19	0.00 0.00	QC 3 - 10		
				QC 3 - 13		
				QC 3 - 15		
				QC 3 - 17		
				QC 3 - 18		
				QC 3 - 2		
				QC 3 - 28		
				QC 3 - 3		
				QC 3 - 30		
				QC 3 - 34		
				QC 3 - 36		
				QC 3 - 41		
				QC 3 - 51		

					QC 3 - 58	
					QC 3 - 59	
					QC 3 - 68	
					QC 3 - 9	
					QC 3 - 40	DAS SEP 04 2019 40 9-89
					QC 3 - 19	
					QC 3 - 43	
					QC 3 - 24	
150	Packaging 3-1 - Stock - B4B	10 pcs	8/30/19	0.00 0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	PC ST243
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
160	QC 21 - SA	10 pcs	8/30/19	0.00 0.00	QC 21 - SA - 21	
					QC 21 - SA - 70	DAS SEP 05 2019 21 9-89
					QC 21 - SA - 53	
Part Op 110 - (Receive & Inspect for Damage & Mat'l Certs) Descriptions: 120 - (QC6- All purchased or subcontracted products) 130 - (Chemical Conversion Coat per QSI005 4.1) 140 - (QC3- Inspect Part Finish) 150 - (Identify as per dwg & Stock Location: _____) 160 - (QC21- Final Inspection - Work Order Release)						
Job BOM						
Part / Item	Component Name	Quantity	Operation	Container		
D4007-3P	Support	10 pcs (1 ea)	100-Purchasing	5709877		



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **POHB043808**



Supplier: GFI001-VC
ABB Installation Products Ltd.
180 Avenue Labrosse
Pointe Claire
QC
H9R 1A1 Canada
Phone: 514 630 4877
Fax: 514 630 4849

PO No: POHB043808

PO Date: 6/20/19

Due Date: 8/30/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
2019-06-21

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	196727	D3628-1P			Cupped Washer : Various STC's As Per Dwg D3628 Rev. C	Firmed	-	8/30/19	500 pcs	0 pcs	500 pcs	\$2.54/pcs	\$1,270.00
2	196728	D4007-3P			Support : Various STC's	Firmed	-	8/30/19	10 pcs	0 pcs	10 pcs	\$81.477/pcs	\$814.77
												Grand Total:	\$2,084.77

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
- A012 CHEMICAL AND PHYSICAL TEST REPORTS
- A016 PERSONNEL QUALIFICATION
- A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENT
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS

Plex 6/21/19 11:45 AM Dart.Guerin.Kimberley



by ABB

ABB PRODUITS D'INSTALLATION LTÉE
ABB INSTALLATION PRODUCTS LTD.
180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

REGISTERED
TO

AS9100D
ISO 9001:2015
ISO 14001:2015
OHSAS
18001:2007

BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON SHIPPING MEMO NO	PAGE
JR - DY	MO - MO	AN - YR		
22	08	19	0646699	1/1



VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT CUSTOMER CODE	N° DE CONTRAT JOB NO.	VOTRE N° DE COMMANDE YOUR PURCHASE ORDER NO	EXPÉDIÉ PAR SHIP VIA
DART GFI-0299	0368310	POHB043808	

QUANTITÉ QUANTITY	N° DE PIÈCE PART NO.	DESCRIPTION
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10 D4007-3P

SUPPORT

DAS
61
9-89

ITEM 2

DART AEROSPACE LTD.

AUG 28 2019

RECEIVED

MFG. JOB# 0326234-001
0368310-001 QTY 1 pc

DUE DATE: 30 August 2019

EXPÉDITEUR
SHIPPER

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

**CERTIFICAT DE CONFORMITE
CERTIFICATE OF COMPLIANCE**



CLIENT / CUSTOMER
DART AEROSPACE LTD

NO DU BON DE VENTE DE CLIENT / CUSTOMER ORDER NO.
POHB043808

ABB PRODUITS D'INSTALLATION LTÉE
ABB INSTALLATION PRODUCTS LTD.
180 Ave. Labrosse
Point-Claire, QC H9R 1A1
Tel: (514) 630-4877
Fax: (514) 630-4849

FOURNISSEUR / FABRICATION / LOT# / TYPE
DISTRIBUTOR / MANUFACTURER / LOT# / TYPE
SAMUEL/ KAISER ALUMINUM # 172105B9 AND
TW METALS/ AMAG ROLLING # 6623001 / .063 THK/ AL 2024-T3/
(AMS-QQ-A-250/4)

BON DE LIVRAISON / SHIPPING MEMO
0646699

DATE DE LIVRAISON / SHIPPING DATE
23 August 2019

ARTICLE / ITEM	QTY / QTE	NO. DE PIECE / PART NUMBER	DESIGNATION / DESCRIPTION
2	10	D4007-3P	SUPPORT
SPECIFICATIONS / SPECIFICATIONS		RESULTAT DE ESSAIS / TEST RESULTS	
GFI TRACEABILITY NO# 0326234-001 AND 0368310-001 NOTES: ADDITIONAL CHANGES: DRAWING REV. LEVEL: A		1. MATERIAL DISTRIBUTOR AND MANUFACTURER C/C AS ABOVE ATTACHED 2. IDENTIFY (BAG AND TAG) 3. NOTE: ALL C/C ATTACHED AND ON FILE. 4. GFI CONTRAT JOB NO. 0368310 5. REF. GFI MANUFACTURING JOB NUMBER 0326234-001 (1 PC) AND 0368310-001 (9 PCS) DAS 61 9-89	

SIGNATURE / SIGNED





POUR / FOR

ABB / GFI

JE CERTIFIE PAR LA PRÉSENTE QUE LE MATÉRIEL ÉNUMÉRÉ CIDESSUS A ÉTÉ INSPECTÉ ET EST CONFORME AU DESSIN ET/OU AUX SPÉCIFICATIONS RÉFÉRENCÉES PAR VOTRE BON DE COMMANDE

I HEREBY CERTIFY THAT THE MATERIAL LISTED ABOVE HAS BEEN INSPECTED, TESTED AND CONFORMS TO THE DRAWING AND/OR SPECIFICATIONS REFERENCED BY YOUR PURCHASE ORDER

Q.A. MANAGER

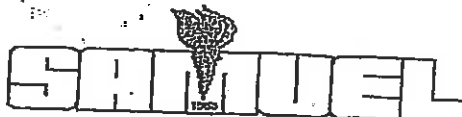


Q.C. SUPERVISOR



Q.C. INSPECTOR





LES METAUX SPECIALISES SAMUEL
21525 CLARK-GRAHAM
BAIE D'URFE, QUEBEC, CANADA
H9X 3T5

004259299

No



(514) 457-3399 TÉLÉC (514) 457-9393

PAGE 1 DE/OF 2

TRANSPORTEUR/CARRIER NAME
CASTERO R-571041-4

CAMION/TRUCK
099

NOM DE LA BRANCHE/SALES BRANCH NAME
SAMUEL & FILS & CIE LTÉE

DATE D'EXP/DATE OF SHIPMENT
10/12/16

VENDU À/SOLD TO:

GFI, DIVISION DE THOMAS & BETTS LTÉE
180 LABROSSE

EXPÉDIÉ À/SHIP TO: FAB: DEST

GFI INC.
180 LABROSSE

POINTE-CLAIRE

QC

H9R1A1

(514) 630-4877

POINTE-CLAIRE

QC

H9R1A1

CA

(0201009-00001)

N° COMMANDE
N° ITEM
007310-01

DESCRIPTION ET POIDS/DESCRIPTION AND WEIGHT

#Comm du client: 88130

1 PCS 2024 T3 BARE QQA250/4

Cert/Test: AVAIL

36 LVR

.0630"x48"x120"

AMS-QQA-250/4

C OF C + MILL TESTS REQUIRED.

#Pièce AS0634814424

Description

#Étiq mln

PCS

levée

Pd ca

Qté

#PLT

#Étiq

VendeurOrg

Etiq.orig #Coul

1

40.000

36 495533

2846047 017

US

16.33 KG

1997165

D082295 172105B9

Total:

1

40.000

36

16 KG

007310-02

#Comm du client: 88130

1 PCS 2024 T3 BARE QQA250/4

Cert/Test: AVAIL

8 LVR

.0630"x48"x24"

AMS-QQA-250/4

C OF C + MILL TESTS REQUIRED.

#Pièce AS0634814424

Description

#Étiq mln

Pcs

levée

Pd ca

Qté

#PLT

#Étiq

VendeurOrg

Etiq.orig #Coul

1

8.000

8 495532

2846048 017

US

3.63 KG

1997165

D082295 172105B9

Total:

1

8.000

8

4 KG

Poids total:

44 LVR

Poids total:

20 KG

#Total paquets:

2



CHARGES: PRÉPAYÉ/PREPAID

PRÉPAYÉ PAR

EXPÉDITEUR/DISPATCHER

INST. VOITURIER/DRIVER INSTRUCTIONS

VOITURIER/DRIVER

VALEUR (62000b max Amouss d'avis controlé)
VALUATCH (Max 62,000b unless otherwise stated)
Valeur déclarée de l'expédition
DECLARED VALUE OF SHIPMENT

REÇU PAR/RECEIVED BY

1. ORIGINAL - NON NEGOCIABLE (CE CONNAISSEMENT DOIT ÊTRE SIGNÉ PAR L'EXPÉDITEUR ET LE VOITURIER)



LES METAUX SPECIALISES SAMUEL
21525 CLARK-GRAHAM
BAIE D'URFE, QUEBEC, CANADA
H9X 3T5

(514) 457-3399 TÉLÉC (514) 457-9393

004259299

No



PAGE 2 DE/OF 2

TRANSPORTEUR/CARRIER NAME
CASTERO R-571041-4

CAMION/TRUCK
099

NOM DE LA BRANCHE/SALES BRANCH NAME
SAMUEL & FILS & CIE LTÉE

DATE D'EXP/DATE OF SHIPMENT
10/12/16

VENDU À/SOLD TO:

GFI, DIVISION DE THOMAS & BETTS LTÉE
180 LABROSSE

POINTE-CLAIRE
QC
H9R1A1

(514) 630-4877

EXPÉDIÉ À/SHIP TO: FAB: DEST

GFI INC.
180 LABROSSE

POINTE-CLAIRE
QC
H9R1A1 CA

(0201009-00001)

N° COMMANDE
N° ITEM

DESCRIPTION ET POIDS/DESCRIPTION AND WEIGHT

Commentaires connaissance:

CERTIFICATE OF COMPLIANCE MEETS
THE MATERIAL DETAILED ABOVE MEETS YOUR ORDER
REQUIREMENTS AND GRADE STANDARDS AS DESCRIBED
PLEASE REFER TO MILL TEST REPORT ATTACHED.

AUTHORIZED BY:

Heures récept:

7H30 AM @ 3H30 PM

A. Rainone Date 10/12/16

Anne Rainone
Administration



CHARGES: PRÉPAYÉ/PREPAID

PRÉPAYÉ PAR

EXPÉDITEUR/DISPATCHER

INST. VOITURIER/DRIVER INSTRUCTIONS

VOITURIER/DRIVER

VALEUR (\$2000 max 1 million d'impôt) (Max \$2,000 unless otherwise stated)
VALUER/CERTIFICATE OF EXPEDITION
DECLARED VALUE OF SHIPMENT

REÇU PAR/RECEIVED BY

SHIP TO:

METALX SPECIALISES SAMUEL QC
21525 CLARK-GRAHAM
BAIE D'URFE, PQ, CA H9X 3T5

SOLD TO:

SAMUEL & FILS & CIE LTEE
DIVISION OF SAMUEL & SON LTD
1250 APPLEBY LINE
BURLINGTON, ON, CA L7L 566

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

4416362

CUSTOMER PO NUMBER: C72416		WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 103545/12	GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1212833	LINE ITEM: 4	SHIP DATE: 26-APR-2016	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet	
WEIGHT SHIPPED: 3260 LB	QUANTITY: 74 PCS EST.	TRUCK B/L #: 2059940	GAUGE: 0.0630 IN (1.6002 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)		LENGTH: 144.000 IN (3657.6 MM)	

MHU 1997165: LOT 172105B9: 74 pieces; *1082295*

Certified Specifications

AMS 4037/RevQ
CMMP 019/RevD

AMS-QQ-A-250/4/RevB
CMMP 025/RevU

ASTM B 209/Rev14

Test Code: 1504

Test Results

Lot: 172105B9 Cast 174

Drop 93

Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	66.7 : 66.9 (460 : 461)	45.1 : 45.6 (311 : 314)	18.2 : 18.3

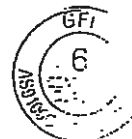
(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.19	4.7	0.57	1.3	0.01	0.09	0.02	0.01	0.00	TOT 0.06

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFIED TEST REPORT

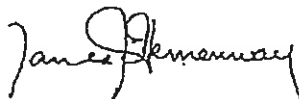
Serial Number

4416362

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO 9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.
 - was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
 - has been thermally processed in compliance with AMS 2772, where applicable.
 - is mercury free, within the limits of detection of ASTM E1251 (≤ 1 ppm).
 - is in compliance with RoHS 2, European Union Directive 2011/65/EU.
 - is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2005.
 - is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER





7640 REINHOLD DR
CINCINNATI OH 45237
Tel: 800-806-1757
FAX: 513-821-3825

CERTIFICATE OF COMPLIANCE

Customer Name: GFI INC
Your Order Number: 0092916
Our delivery receipt Number: 03387973
Date: 5/28/19

This is to certify that the material shipped against the above order on the above delivery receipt, consisting of:

Line Number: 1
Quantity: 219.160 LB
Grade: 2024T3 ALUM BARE SHEET .0630
Part #: AS0634814424
Heat Number: 6623001
Specification: _____

Complies in all Respects with the item description



By: _____

Authorized Test Department Clerk

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 89128908 / 01/1

Rev.: 0

Seite / page: 1 von / of 3

Datum / date: 2019 02 25

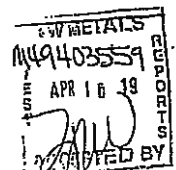
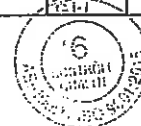
Zertifiziert nach / certified to ISO 9001, IATF 16949, EN/AS 9100, ISO 14001, ISO 50001, NADCAP

Auftraggeber / customer: TW METALS, LLC 760 CONSTITUTION DR The Arboretum Ste 204 EXTON PA 19341 USA Warenempfänger / consignee: TW Metals - Cincinnati 7640 Reinhold Drive CINCINNATI OH 45237-3312 USA	Bestell Nr. / order no.: M49403559 Datum / date: 2018 11 07
	Auftragsbest. Nr. / order confirm no.: 157303 Datum / date: 2018 11 08
	Lieferschein Nr. / delivery note: 89128908 Datum / date: 2019 03 29

Produkt / product Form / form: Sheet Werkstoff / material: 2024 Zustand / temper: T3 Dim. / dim.: [inch]: 0,063x48,00x144,00 Kundenartikel Nr. / cust. article no.: 05313	Bedingungen / terms Technische Lieferbedingungen / techn. spec.: AMS-QQ-A-250/4 Rev.B, 2015-02 ASTM B 209 - 14 AMS 4037Q, 12.2014 WL 3.1354-1, 12.1987 Cessna CMMP019, Rev. D, 09-07-01 Cessna CMMP025, Rev. V, 2-20-15 ANSI H35.2-2017 ABM 1-6015, Issue 2, OCT 2004 AIR9048-110, 26 December 1978 Sondervorschrift / special terms:
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AB-Pos. ord.-item.	BNr/Los Lot/No.	Teillos Part	Guss Nr. cast no.	Werkstoff material	Kollo packno.	Gewicht netto weight net	Stk. pcs
01	66230/01	00	01/0097409/9	2024	1573030002	2059,083 lbs	47
01	66230/01	00	01/0097409/9	2024	1573030003	2059,083 lbs	47
01	66230/01	00	01/0097409/9	2024	1573030004	701,058 lbs	16

Chemische Zusammensetzung ([%] Gewichtsanteile) / Chemical composition ([%] weight proportion (OES))											
Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ti+Zr	Others Each
01/0097409/9	2024	-	-	3,8	0,30	1,2	-	-	-	-	-
	spec. min.	-	-	3,8	0,30	1,2	-	-	-	-	-
	spec. max.	0,50	0,50	4,9	0,90	1,8	0,10	0,25	0,15	0,20	0,05
	actual	0,06	0,09	4,4	0,45	1,5	0,02	0,05	0,03	0,03	0,02
	Others Total										
	spec. min.	-									
	spec. max.	0,15									
	actual	0,03									



Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

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Zertifiziert nach / certified to ISO 9001, IATF 16949, EN/AS 9100, ISO 14001, ISO 50001, NADCAP

Zugprüfung LT / tensile test LT									
BNr/Los	Zustand	Richtung	Tests		UTS	YS	A2"		
Lot/No.	temper	direction			[ksi]	[ksi]	[%]		
				spec.min.	63,8	42,1	15		
				spec.max.	-	-	-		
66230/01	T3	LT	7	from	67,2	48,2	16		
66230/01	T3	LT		to	68,2	49,6	18		

Elektr. Leitfähigkeit GM / electr. Conductivity GM									
BNr/Los	Zustand	Tests		L / ec	ΔL / Δec per batch				
Lot/No.	temper			[% IACS]	[% IACS]				
			spec.min.	-	-				
			spec.max.	32,8	2,6				
66230/01	T3	21	from	31,1	0,3				
66230/01	T3		to	31,4	0,3				

Sonstige Prüfungen / other tests

Biegeversuch: OK. / Transverse bend test: OK.
Interkristalline Korrosion: OK. / Intergranular corrosion: OK.
Maßkontrolle: OK. / Dimensional Check: OK.
Oberfläche: OK. / Surface inspection: OK.

Bemerkungen / notes

Die Dimensionstoleranzen entsprechen ANSI XXX /
As standard, dimensional tolerances are to ANSI XXX
Herstellerland: Österreich. Material wurde in Österreich produziert und aufgeschmolzen. /
The goods are of Austrian origin. Material produced and melted in Austria.

Material erfüllt folgende Klauseln:

DFARS 252.225-7001 BUY AMERICAN ACT & BALANCE OF PAYMENTS
FAR 52.225-5 TRADE AGREEMENTS

Material erfüllt nicht folgende Klauseln:

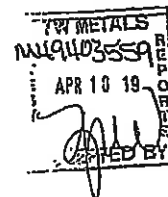
FAR 52.225-1 BUY AMERICAN ACT

/
Material complies with the following clause:

DFARS 252.225-7001 BUY AMERICAN ACT & BALANCE OF PAYMENTS
FAR 52.225-5 TRADE AGREEMENTS

Material does not comply with the following clauses:

FAR 52.225-1 BUY AMERICAN ACT





Abnahmeprüfzeugnis 3.1 (EN 10204)
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Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.
We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkssachverständiger / factory specialist	E-Mail / e-mail
Verena Huber	verena.huber@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.

Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling
Werkssachverständiger
ROL-Nr. 068

Huber

